In the Claims

SUB 317

1. (Presently Amended) A method for sizing ~~the hardware resources for~~ a yet-to-be built database management system, the method comprising the steps of:

providing one or more ~~percent~~ desired hardware utilization limits for the yet-to-be built database management system;

obtaining one or more throughput workload requirements for the yet-to-be built database management system; and

determining ~~calculating~~ the hardware resources needed for the yet-to-be built database management system to satisfy the one or more throughput workload requirements while remaining within the desired ~~percent~~ hardware utilization limits.

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2. (Presently Amended) A method as recited in claim 1, the method further comprising the steps of:

accepting user entered changes to the ~~percent~~ desired hardware utilization limits;

re-determining ~~recalculating~~ the ~~required~~ hardware resources needed ~~in order~~ to remain within said ~~percent~~ desired hardware utilization limits; and

outputting the ~~required~~ determined hardware resources to the human user in a format to advise the human user.

3. (Presently Amended) A method as recited in claim 1, the method further comprising the steps of:

obtaining selected database requirements including an expected database size; and

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4   determining ~~calculating~~ the hardware resources needed <u>for the yet-to-be built database</u>

5   <u>management system</u> to satisfy the <u>selected</u> database requirements while remaining within the

6   ~~percent~~ <u>desired</u> hardware utilization limits.

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1   4.   (Previously Canceled) A method as recited in claim 4, the method further

2   comprising the steps of:

3   accepting user entered changes to the percent hardware utilization limits; recalculating

4   the required hardware resources in order to remain within said percent hardware   utilization

5   limits; and

6   outputting the required hardware resources to the human user in a format to advise the

7   human user.

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1   5.   (Presently Amended) A method as recited in claim 2, wherein the <u>one or more</u>

2   throughput workload requirement<u>s</u> includes a transactions per second requirement.

1   6.   (Presently Amended) A method as recited in claim 5, wherein the ~~calculating and~~

2   ~~recalculating~~ <u>determining and re-determining</u> steps include ~~calculating~~ <u>determining</u> the hardware

3   resources needed as a function of the transactions per second <u>requirement</u>.

1   7.   (Presently Amended) A method as recited in claim ~~4~~ <u>2</u>, wherein said hardware

2   resource<u>s</u> ~~requirements~~ include a number of processors.

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1   8.   (Presently Amended) A method as recited in claim 7, wherein said ~~calculating~~

2 ~~and recalculating~~ determining and re-determining steps include ~~calculating~~ determining said

3 number of processors as a function of the transactions per second requirement.

1   9.   (Presently Amended) A method as recited in claim ~~4~~ 7, wherein the ~~percent~~

2 desired hardware utilization limits include a desired percent processor utilization and said

3 accepting step includes accepting changes to said desired percent processor utilization and said

4 ~~calculation and recalculation~~ determining and re-determining steps includes ~~calculating~~

5 determining said hardware resources such that ~~requirements within~~ said desired percent

6 processor utilization limits is maintained and includes changing said number of processors

7 required when necessary to remain within said desired processor utilization limits.

1   10.   (Presently Amended) A method as recited in claim 9, wherein said desired

2 percent processor utilization ~~limits~~ include ~~upper~~ an utilization limits to prevent over ~~utilizing~~

3 utilization of said processors and said ~~calculating and recalculating~~ determining and re-

4 determining steps include ~~calculating~~ determining said number of processors needed to ~~keeping~~

5 below said upper limit to prevent over utilization of said processors.

1   11.   (Presently Amended) A method as recited in claim 10, wherein said desired

2 percent processor utilization ~~limits~~ includes a lower utilization limits to prevent under ~~utilizing~~

3 utilization of said processors.

1   12.   (Presently Amended) A method as recited in claim 11, wherein said ~~calculating~~

2 ~~and recalculating~~ determining and re-determining steps include ~~calculating~~ determining said

3 number of processors needed to remain ~~keeping~~ above said lower limit to prevent under

4 utilization of said processors.

1   13.   (Presently Amended) A method as recited in claim 10, wherein said desired

2 ~~percent~~ hardware utilization limits include a desired ~~percent~~ network interface card utilization

3 limit and said ~~calculating and recalculating~~ determining and re-determining steps include

4 ~~calculating~~ determining said hardware requirements within said desired network interface card

5 utilization limits and includes changing said number of network interface cards required when

6 necessary to remain within said network interface card utilization limits.

1   14.   (Presently Amended) A method as recited in claim 13, wherein said network

2 interface card utilization limits includes a lower utilization limits to prevent under ~~utilizing~~

3 utilization of said network interface cards and said ~~calculating and recalculating~~ determining and

4 re-determining steps include ~~calculating~~ determining said number of network interface cards

5 needed to remain ~~keeping~~ above said lower limit to prevent under utilization of said network

6 interface cards.

1   15.   (Presently Amended) A method as recited in claim 14, wherein said network

2 interface card utilization limits includes an upper utilization limits to prevent over ~~utilizing~~

3 utilization of said network interface cards and said ~~calculating and recalculating~~ determining and

4 re-determining steps include ~~calculating~~ determining said number of network interface cards

5   needed to remain ~~keeping~~ below said upper limit to prevent over utilization of said network

6   interface cards.

1   16.   (Presently Amended) A computerized method for calculating hardware <u>resource</u>

2   requirements for a <u>yet-to-be built</u> database management system computer comprising the steps

3   of:

4   establishing default values for <u>selected</u> hardware utilization limits;

5   initializing said <u>selected</u> hardware utilization limits to said default values;

6   obtaining a workload requirement from said human user; and

7   <u>determining</u> ~~calculating~~ said hardware <u>resource</u> requirements as a function of said

8   workload requirement while remaining within said <u>selected</u> hardware utilization limits.

1   17.   (Presently Amended) A computerized method as recited in claim 16, the method

2   further comprising the steps of:

3   obtaining new hardware utilization limits from said human user;

4   <u>re-determining</u> ~~recalculating~~ said hardware <u>resource</u> requirements while remaining within

5   said hardware utilization limits; and

6   displaying <u>the determined</u> hardware <u>resource</u> requirements in a format to ~~advice~~ <u>advise</u>

7   the user of the ~~required~~ hardware <u>resource requirements for a yet-to-be built database</u>

8   <u>management system computer to meet</u> ~~for~~ the user entered workload <u>requirement</u>.

1   18.   (Presently Amended) A computerized as recited in claim 17, wherein said

2 hardware resource requirements include a specified discrete numbers of hardware components.

1   19.   (Presently Amended) A computerized method as recited in claim 18, wherein and

2 said ~~calculating and recalculating~~ determining and re-determining steps include ~~calculating~~

3 determining said specified number of hardware components.

SUB D3

1   20.   (Newly Presented)   Computer executable code stored on machine readable

2 media for sizing the hardware resources for a yet-to-be built database management system, the

3 computer executable code performing the steps of:

4   providing one or more desired hardware utilization limits for the yet-to-be built database

5 management system;

6   obtaining one or more throughput workload requirements for the yet-to-be built database

7 management system; and

8   determining the hardware resources needed for the yet-to-be built database management

9 system to satisfy the one or more throughput workload requirements while remaining within the

10 desired hardware utilization limits.